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IN THE CLAIMS

1-3. (Canceled)

4. (Currently amended) A storage operation management program according to claim 18, which further includes:

code for judging whether a copy destination volume exists having said feature of said created or selected copy source volume, based on said ~~second~~ request for a copy destination volume and based on said prestored relationship between said created or selected copy source volume and said information.

5. (Previously presented) A storage operation management program according to claim 18, which further includes:

code for retrieving a route capable of connecting a storage device having the created or selected copy source \_\_\_\_\_ volume and a storage device having the created or selected copy destination volume; and

code for acquiring information of said route and judging whether replication of data of the created or selected copy source volume to the data area of the created or selected copy destination volume is possible by use of said route based on

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said information of the created or selected copy source volume and based on said information of said route.

6. (Previously presented) A storage operation management program according to claim 18, further comprising:

code for acquiring information of a route for connecting a storage device having said created or selected copy source volume to a storage device having said created or selected copy destination volume; and

code for judging whether connection of said route for connecting the created or selected copy source volume to the created or selected copy destination volume is made through a different route in response to said information of the created or selected copy source volume and information of a communication line forming the route.

7. (Previously presented) A storage operation management program according to claim 6, further comprising:

code for judging existence/absence of omission of data stored in a storage area in accordance with information of the created or selected copy source volume, the operation condition of the replication and the operation condition of the storage area.

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8. (Previously presented) A storage operation management program according to claim 18, further comprising:  
code for judging whether or not a different copy destination volume can be substituted for the created or selected copy destination volume.

9-17. (Canceled)

18. (Currently amended) A storage operation management program executed on a computer for operating and managing replication of a volume inside a storage device or among a plurality of storage devices, the program comprising:

code for receiving a ~~first~~ request for a copy source volume based on information indicating a feature of said copy source volume;

code for one of creating and selecting said copy source

\_\_\_\_\_volume based on said information;

code for receiving a ~~second~~ request for a copy destination volume; [[and]]

code for one of creating and selecting said copy destination volume to have said feature of said copy source volume, based on said ~~second~~ request for a copy destination volume, based on a prestored relationship between said copy

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source volume and said information, and based on possible/impossible pairing information indicating that said copy destination volume has a pairing capability of forming a replication pair with said copy source volume to make possible the copying of contents of said copy source volume to said copy destination volume, said pairing information being specified by one of a user and an application; and code for copying the contents of said copy source volume to said copy destination volume.

19. (Previously presented) A storage operation management program according to claim 18, further comprising code for selecting one of said plurality of storage devices from which to create or select said copy destination volume, said selected storage device being different from the storage device having said created or selected copy source volume; wherein said code for creating or selecting said copy destination volume, creates or selects said copy destination volume from said selected storage device.

20. (Previously presented) A storage operation management program according to claim 18, further comprising code for performing a copy function from said created or

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selected copy source volume to said created or selected copy destination volume.

21. (Previously presented) A storage operation management program according to claim 18, wherein said pairing information includes a use policy of said copy destination volume indicating that said copy destination volume is not constrained to be a copy source volume, and wherein said pairing information includes a pairing indicator indicating that said copy destination volume is a possible replication destination for pairing with said copy source volume.

22. (Currently amended) A storage operation management program executed on a computer for operating and managing replication of a volume inside a storage device or among a plurality of storage devices, wherein when executed, the  
\_\_\_\_\_program causes the computer to perform a method comprising the steps of:

receiving a ~~first~~ request for a copy source volume based on information indicating a feature of said copy source volume;

creating or selecting said copy source volume based on said information;

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receiving a ~~second~~ request for a copy destination volume;  
creating or selecting said copy destination volume to  
have said feature of said copy source volume, based on said  
~~second request~~ for a copy destination volume, based on a  
prestored relationship between said copy source volume and  
said information, and based on possible/impossible pairing  
information indicating that said copy destination volume has a  
pairing capability of forming a replication pair with said  
copy source volume to make possible the copying of contents of  
said copy source volume to said copy destination volume, said  
pairing information being specified by one of a user and an  
application; and

setting a route capable of connecting a storage device  
having the copy source volume and a storage device having the  
copy destination volume based on said feature of the copy  
source volume.

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23. (Previously presented) A storage operation  
management program according to claim 22, wherein the method  
further comprises the step of selecting one of said plurality  
of storage devices from which to create or select said copy  
destination volume, said selected storage device being  
different from the storage device having said created or

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selected copy source volume; and wherein said step of creating or selecting said copy destination volume, creates or selects said copy destination volume from said selected storage device.

24. (Previously presented) A storage operation management program according to claim 22, wherein the method further comprises the step of performing a copy function from said created or selected copy source volume to said created or selected copy destination volume.

25. (Previously presented) A storage operation management program according to claim 22, wherein the method further comprises the steps of:

acquiring information of a route for connecting a storage device having said created or selected copy source volume to a \_\_\_\_\_storage device having said created or selected copy destination volume; and

judging whether connection of said route for connecting the created or selected copy source volume to the created or selected copy destination volume is made through a different route in response to said information of the created or

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selected copy source volume and information of a communication line forming the route.

26. (Previously presented) A storage operation management program according to claim 25, further comprising the step of judging existence/absence of omission of data stored in a storage area in accordance with information of the created or selected copy source volume, the operation condition of the replication and the operation condition of the storage area.

27. (Previously presented) A storage operation management program according to claim 22, further comprising the step of judging whether or not a different copy destination volume can be substituted for the created or selected copy destination volume.

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28. (Previously presented) A storage operation management program according to claim 22, wherein said pairing information includes a use policy of said copy destination volume indicating that said copy destination volume is not constrained to be a copy source volume, and wherein said pairing information includes a pairing indicator indicating



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that said copy destination volume is a possible replication destination for pairing with said copy source volume.

29. (Currently amended) A storage operation management program executed on a computer for operating and managing replication of a volume inside a storage device or among a plurality of storage devices, wherein when executed, the program causes the computer to perform a method comprising the steps of:

receiving a ~~first~~ request for a copy source volume based on a feature of said copy source volume, and based on first pairing information indicating a use policy of said copy source volume and indicating that said copy source volume is capable of forming a replication pair with a copy destination volume;

creating or selecting said copy source volume based on  
\_\_\_\_\_said feature and said first pairing information;

receiving a ~~second~~ request for a copy destination volume;  
and

creating or selecting said copy destination volume to have said feature of said copy source volume based on said ~~second~~ request for a copy destination volume, based on a prestored relationship among said copy source volume and said

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feature, and based on possible/impossible second pairing information indicating that said copy destination volume has a pairing capability of forming a replication pair with said copy source volume to make possible the copying of contents of said copy source volume to said copy destination volume, said second pairing information being specified by one of a user and an application.

30. (Currently amended) A storage operation management program executed on a computer for operating and managing replication of a volume inside a storage device or among a plurality of storage devices, wherein when executed, the program causes the computer to perform a method comprising the steps of:

receiving a pair generation request for a copy source volume for which a volume identifier, a predefined use policy, and a pairing capability thereof are stored in a volume information table with a relationship to each other and to a storage capacity of the copy source volume, a read/write frequency predetermined for the copy source volume, a performance indicator for the copy source volume, and a reliability indicator of the copy source volume, wherein said pair generation request includes said volume identifier;

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referring to a storage information table holding a relationship between a storage device and a storage policy;

determining, based on said step of referring to the storage information table, whether a storage device exists that has a storage policy of forming a pair with said copy source volume;

when it is determined that a storage device exists that has a storage policy of forming a pair with said copy source volume, determining from possible/impossible pairing information in the volume information table whether the storage device has a volume having a pairing capability to make possible the copying thereto of contents of said copy source volume;

when it is determined that the storage device has a volume that has a pairing capability, determining from the volume information table whether the volume that has said pairing capability has a storage capacity, a read/write frequency, a performance indicator, and a reliability indicator that at least approximate the storage capacity, read/write frequency, performance indicator, and reliability indicator of the copy source volume in the volume information table;

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when the volume that has said pairing capability has a storage capacity, read/write frequency, performance indicator, and reliability indicator that at least approximate the storage capacity, read/write frequency, performance indicator, and reliability indicator related to the copy source volume in the volume information table,

generating a pairing of said volume, as a copy destination volume, and said copy source volume; and

copying the contents of said copy source volume to said copy destination volume;

when the volume that has said pairing capability does not have a storage capacity, read/write frequency, performance indicator, and reliability indicator that at least approximate the storage capacity, read/write frequency, performance indicator, and reliability indicator related to the copy source volume in the volume information table,

referring to the storage information table additionally holding a relationship between said storage device and space capacity, reliability, and a maximum performance of said storage device;

judging whether the relationship between said storage device and space capacity, reliability, and maximum performance thereof in the storage information

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table indicates that said storage device has a space area from which a volume can be generated that has a storage capacity, read/write frequency, performance indicator, and reliability indicator that at least approximate the storage capacity, read/write frequency, performance indicator, and reliability indicator related to the copy source volume in the volume information table;

when the relationship between said storage device and space capacity, reliability, and maximum performance thereof indicates that said storage device has a space area from which a volume can be generated that has a storage capacity, read/write frequency, performance indicator, and reliability indicator that at least approximate the storage capacity, read/write frequency, performance indicator, and reliability indicator related to the copy source volume in the volume information table, generating a copy destination volume from the space area that has a storage capacity, read/write frequency, performance indicator, and reliability indicator that at least approximate the storage capacity, read/write frequency, performance indicator, and reliability indicator related to the copy source volume in the volume information table;

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generating a pairing of said copy destination volume  
and said copy source volume; and  
copying the contents of said copy source volume to  
said copy destination volume.